LABORATORY HP
CAREVUE INTERFACE
Patch LA*5.2*53 and Patch LR*5.2*254

INTERFACE TEST PLAN

Version 5.2

May 2000

Introduction

The HOST Project Office has indicated the need for an interface between the Veterans Health Information Systems and Technology Architecture (**V***IST***A**) Laboratory files and the CareVue system to allow the downloading of verified laboratory data. This application will use the abstract message approach and encoding rules specified by the Health Level 7 (HL7) Standard Version 2.3. HL7 is the accepted standard for data communication associated with the various events that occur in health care environments.

This application was developed under the Laboratory-CareVue namespace, LA7D. The HOST office designated the Philadelphia Veterans Affairs Medical Center (VAMC) as a test bed for it's initial implementation. CareVue is one of the Commercial Off-The-Shelf (COTS) systems available at the Philadelphia VAMC. These systems currently contain information about VAMC patients.

The context of this manual is about the display and accessibility of verified laboratory results for CareVue from **V***IST***A**.

CareVue Laboratory Interface Test Plan

Test Plan One

Identify patients who are located on a designated CareVue ward and send verified laboratory results from **V***IST***A** to the CareVue System.

1. Once you have identified these patients, step through the options that will order, and accession laboratory tests for these patients.

2. Verify the laboratory tests for these patients.

3. Check the CareVue system to ensure that the verified laboratory results were received.

Repeat these steps for each designated CareVue Ward.

Test Plan Two

Identify patients who are not located on a designated CareVue ward and send verified laboratory results from **V***IST***A** to the CareVue System.

1. Once you have identified these patients, step through the options that will order, and accession laboratory tests for these patients.

2. Verify the laboratory tests for these patients.

3. Check the Interface Engine to ensure that the verified laboratory results were not received.

Example from the Philadelphia Test Account

The following examples will show how to confirm results from **VISTA** to the CareVue System. We will show you examples:

Test plan One

1. Order and Accession Tests

Order Test

```
Select Systems Manager Menu Option: CORE Applications
Select Core Applications Option: LAB  Laboratory DHCP Menu
Select Laboratory DHCP Menu Option: PHLebotomy menu
Select Phlebotomy menu Option:  Lab test order
Select PATIENT NAME:CAT,GARFIELD       00-00-30    444444404     YES
MILITARY RETIREE

PATIENT LOCATION: 2B// SICU
     Select one of the following:


          LC         LAB COLLECT(INPATIENTS-MORN. DRAW)
          SP         SEND PATIENT
          WC         WARD COLLECT

Specimen collected how ? : SP// WC  WARD COLLECT
SPECIMEN COLLECTION DATE/TIME: N// <RET>   (FEB 25, 1999@12:42)
PROVIDER: MURPHY,MINAO
Will the urgency for all tests ordered for this patient at this time be
ROUTINE? Yes// <RET>    (Yes)
Select LABORATORY TEST NAME: SODIUM
For SODIUM  BLOOD    MARBLED TOP
Correct sample? Yes// <RET>    (Yes)
COLLECTION SAMPLE: BLOOD                MIN VOL (in mls.): 0
Select LABORATORY TEST NAME:
You have just selected the following tests for CAT,GARFIELD  444-44-4404
     entry no. Test                             Sample
     1         SODIUM                           BLOOD    SERUM

All satisfactory? Yes// <RET>    (Yes)
ORDER COPY DEVICE:HOME// <RET>    Telnet Home Device
LAB Order number: 80

                    Ward Collect ORDER FOR 02/25/99
                    ORDER: 80         LOCATION: SICU
CAT,GARFIELD                          444-44-4404
ENTERED BY: MURPHY,MINAO             02/25/99 12:41
PRACTITIONER: MURPHY,MINAO      Est. Collect Time: 02/25/99 12:42
Collection sample: BLOOD    MARBLED TOP Site/Specimen: SERUM
TEST/PROCEDURE: SODIUM                          ROUTINE


TIME OF COLLECTION:_____

Do you want to place another order for this patient? NO// <RET>
Select Patient Name: ^
Select Phlebotomy menu Option: ^
```

Accession Test

```
Select Laboratory DHCP Menu Option: ACCessioning menu
Select Accessioning menu Option: ACCessioning tests ordered by ward order
entry
Select Order number: 80
CAT,GARFIELD                    444-44-4404    Requesting location: SICU
Date/Time Ordered: 02/25/99 12:41           By: MURPHY,MINAO
  Lab Order # 80                            Provider: MURPHY,MINAO
  BLOOD     SERUM
  SODIUM            ROUTINE Requested (WARD COL) for:  02/25/99 12:42


Is this the correct order? Yes// <RET>    (Yes)
Collection Date@Time: FEB 25,1999@12:42// <RET>    (FEB 25, 1999@12:42:00)

ACCESSION:  CH 0225 1  <1070560001>
SODIUM                          BLOOD     SERUM

Select Order number: <RET>
Select Patient Name: <RET>
Select Accessioning menu Option:^
```

2. Verify the Laboratory Test Results

```
Select Laboratory DHCP Menu Option: PROCESS data in lab menu
Select Process data in lab menu Option: EM  Enter/verify/modify data (manual)
Do you want to review the data before and after you edit?? Yes// <RET> (Yes)
Do you wish to see all previously verified results. ? No// <RET>  (No)
Select Accession: CH 0225 1
CHEMISTRY  (FEB 25, 1999)  1
CAT,GARFIELD                    444-44-4404    LOC:SICU

Sample: BLOOD
Specimen: SERUM
1  SODIUM

CAT,GARFIELD  SSN: 444-44-4404       LOC: SICU
Practitioner: MURPHY,MINAO

ACCESSION:                              CH 0225 1
                                        02/25 1242d
SODIUM //140
Select COMMENT:
CAT,GARFIELD  SSN: 444-44-4404       LOC: SICU
Practitioner: MURPHY,MINAO

ACCESSION:                              CH 0225 1
                                        02/25 1242d
SODIUM                                  140  meq/L
SELECT ('E' to Edit, 'C' for Comments, 'W' Workload )
Approve for release by entering your initials: MJM
LAST IN WORK LIST
Accession NUMBER: <RET>
Select Process data in lab menu Option: ^
Select Laboratory DHCP Menu Option: ^

Select Core Applications Option: ^
```

3. Verify the Laboratory test results were sent to the CareVue System

4. Repeat steps 1-3 for each designated CareVue Wards

Test plan Two

1. Order and Accession Tests for Non-CareVue Patient

Order Test

```
Select Systems Manager Menu Option: CORE Applications
Select Core Applications Option: LAB  Laboratory DHCP Menu
Select Laboratory DHCP Menu Option: PHLebotomy menu
Select Phlebotomy menu Option:  LAB test order
Select PATIENT NAME:CAT,GARFIELD          00-00-30     444444404    YES
MILITARY RETIREE

PATIENT LOCATION: 2B//2B
     Select one of the following:


          LC        LAB COLLECT(INPATIENTS-MORN. DRAW)
          SP        SEND PATIENT
          WC        WARD COLLECT

Specimen collected how ? : SP// WC  WARD COLLECT
SPECIMEN COLLECTION DATE/TIME: N// <RET>   (FEB 25, 1999@13:42)
PROVIDER: MURPHY,MINAO
Will the urgency for all tests ordered for this patient at this time be
ROUTINE? Yes// <RET>    (Yes)
Select LABORATORY TEST NAME: SODIUM
For SODIUM  BLOOD    MARBLED TOP
Correct sample? Yes// <RET>    (Yes)
COLLECTION SAMPLE: BLOOD              MIN VOL (in mls.): 0
Select LABORATORY TEST NAME:
You have just selected the following tests for CAT,GARFIELD  444-44-4404
     entry no. Test                          Sample
     1         SODIUM                         BLOOD     SERUM

All satisfactory? Yes// <RET>    (Yes)
ORDER COPY DEVICE:HOME//<RET>     Telnet Home Device
LAB Order number: 81

                    Ward Collect ORDER FOR 02/25/99
                    ORDER: 81         LOCATION: 2B
CAT,GARFIELD                          444-44-4404
ENTERED BY: MURPHY,MINAO              02/25/99 13:41
PRACTITIONER: MURPHY,MINAO      Est. Collect Time: 02/25/99 13:42
Collection sample: BLOOD    MARBLED TOP Site/Specimen: SERUM
TEST/PROCEDURE: SODIUM                          ROUTINE


TIME OF COLLECTION:_____

Do you want to place another order for this patient? NO// <RET>
Select Patient Name: ^
Select Phlebotomy menu Option: ^
```

Accession Test

```
Select Laboratory DHCP Menu Option: ACCessioning menu
Select Accessioning menu Option: ACCessioning tests ordered by ward order
entry
Select Order number: 81
CAT,GARFIELD                    444-44-4404    Requesting location: 2B
Date/Time Ordered: 02/25/99 13:41             By: MURPHY,MINAO
  Lab Order # 81                              Provider: MURPHY,MINAO
  BLOOD    SERUM
  SODIUM            ROUTINE Requested (WARD COL) for:  02/25/99 13:42

Is this the correct order? Yes// <RET>  (Yes)
Collection Date@Time: FEB 25,1999@12:42// <RET> (FEB 25, 1999@13:42:00)

ACCESSION:  CH 0226 1  <1070560001>
SODIUM                          BLOOD    SERUM

Select Order number: <RET>
Select Patient Name: <RET>
Select Accessioning menu Option:^
```

2. Verify the Laboratory Test Results

```
Select Laboratory DHCP Menu Option: <RET>CESS data in lab menu
Select Process data in lab menu Option: EM  Enter/verify/modify data (manual)
Do you want to review the data before and after you edit?? Yes// <RET>  (Yes)
Do you wish to see all previously verified results. ? No// <RET>  (No)
Select Accession: CH 0226 1
CHEMISTRY  (FEB 25, 1999)  1
CAT,GARFIELD                    444-44-4404   LOC:2B

Sample: BLOOD
Specimen: SERUM
1  SODIUM

CAT,GARFIELD  SSN: 444-44-4404       LOC: 2B
Practitioner: MURPHY,MINAO

ACCESSION:                                 CH 0226 1
                                           02/25 1242d
SODIUM //145
Select COMMENT:
CAT,GARFIELD  SSN: 444-44-4404       LOC: 2B
Practitioner: MURPHY,MINAO
```

```
ACCESSION:                                      CH 0226 1
                                                02/25 1242d
SODIUM                                          145  meq/L
SELECT ('E' to Edit, 'C' for Comments, 'W' Workload )
Approve for release by entering your initials: PM
LAST IN WORK LIST
Accession NUMBER: <RET>
Select Process data in lab menu Option: <RET>
Select Laboratory DHCP Menu Option: ^

Select Core Applications Option: ^
```

3. Verify the Laboratory test results were not sent to the CareVue System